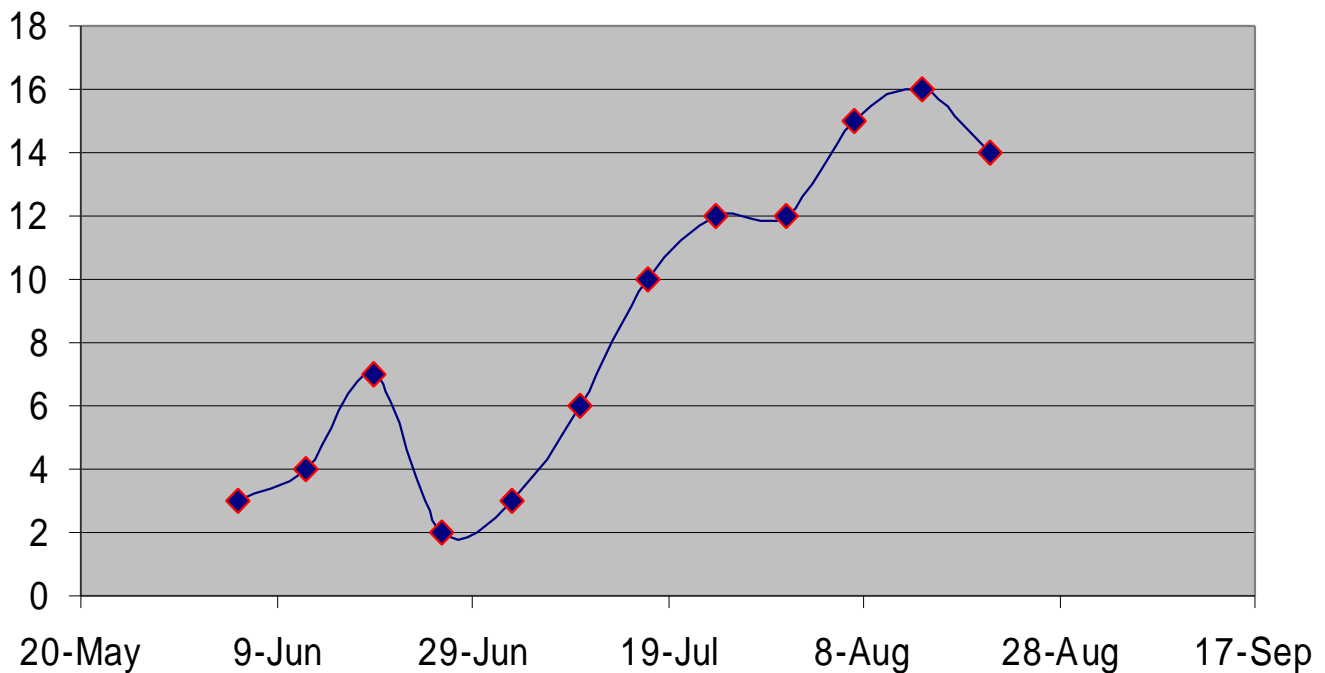


# Fiber Tracker Status

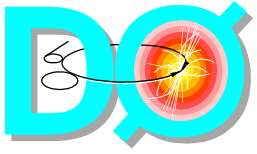
- **Ribbon Production**

- ◆ **Going smoothly**
- ◆ **Adding Manpower (+3 since last PMG)**
- ◆ **3 ribbons/day-going to 4/day now**
  - 90 days left in schedule ( 250 ribbons)
- ◆ **96% pass-rate for C8 ribbons**
  - One handling failure (25/26)

**Weekly Ribbon Production**  
( » 85% Overall Pass-Rate )



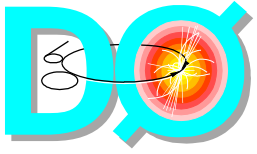
9/2/99



# Fiber Tracker Status

- Ribbon Mounting-3B COMPLETE !

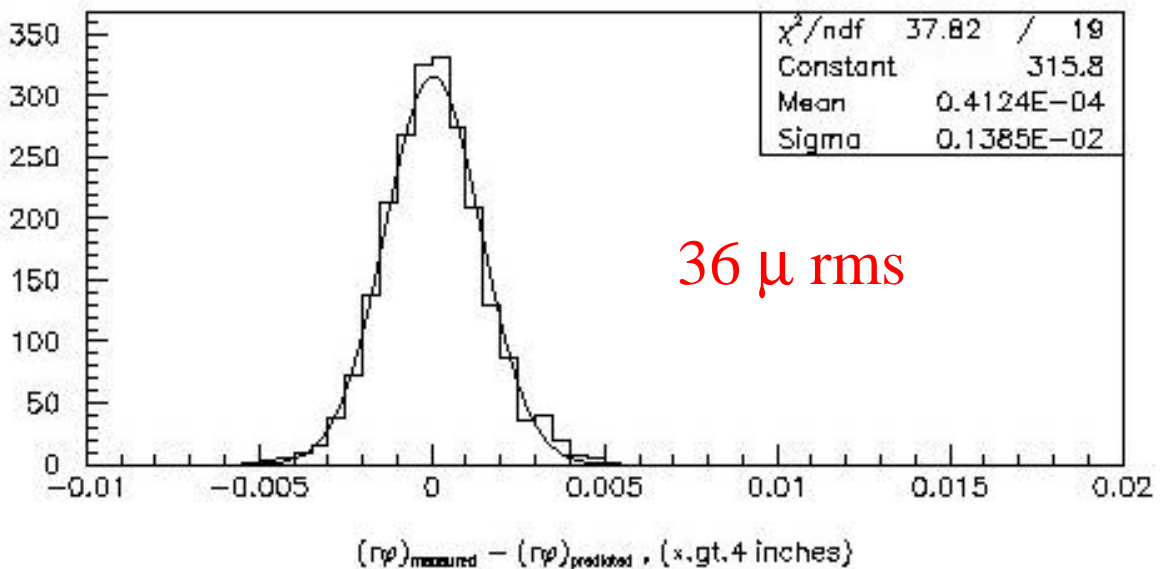




# Fiber Tracker Status

- Ribbon Mounting

- ◆ 3b Complete



- Cylinder Fab

- ◆ 8b done and successful

- Assembly Engineering

- ◆ Transport cart Finished

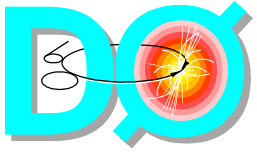
- VLPC cassette Flex circuit

- ◆ Compunetics awarded bid

- \$400k

- Cross-talk high (3.5%)

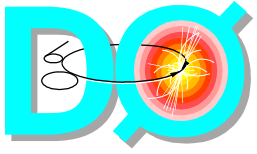
- But tolerable



# Fiber Tracker Status

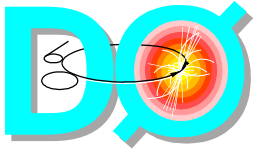
- **New Problem**

- ◆ **Torlon curved connectors (for ribbons and waveguides) are growing in length**
  - **Humidity effect**
  - **Caused interference problem on 3b A**
  - **Connectors have appeared to reach saturation**
    - Investigated >3 year old machined parts
  - **No final decision at this time**
    - Will try to resolve remaining problems with Al connectors
    - Understand Torlon properties
      - **Guarantee no ribbon-waveguide problem**
    - Alternate material
  - **We now have three vendors ready to make parts (in either plastic or Al) once final material decision is made.**
    - Avtech
    - Medco
    - Fermilab Main shop



# Fiber Tracker Status

- ◆ Will continue ribbon production unabated
  - ◆ “Temp” connectorize
  - ◆ Only do spot QC -based on 8A
- ◆ Finish Cylinder & CF comp. FAB
- ◆ Favored Option at this time
  - ◆ Use Torlon connectors for cylinders 7&8
    - Make new Cylinders slightly bigger to accommodate large inter-ribbon gap
  - ◆ Use different material for remaining connectors (1,2,4,5,6)
  - ◆ Introduces 5 week delay in schedule
  - ◆ Investigating new adhesive for ribbon mounting to speed up ribbon mounting and gain some time back
    - **THIS IS NOT ASSUMED IN SCHEDULES TO BE SHOWN**



# Fiber Tracker Schedule Summary

	End Date (NoC)	End Date (WC)
FT	3/1/00	4/4/00
VLPC	9/12/00	11/21/00
WG	5/5/00	6/19/00